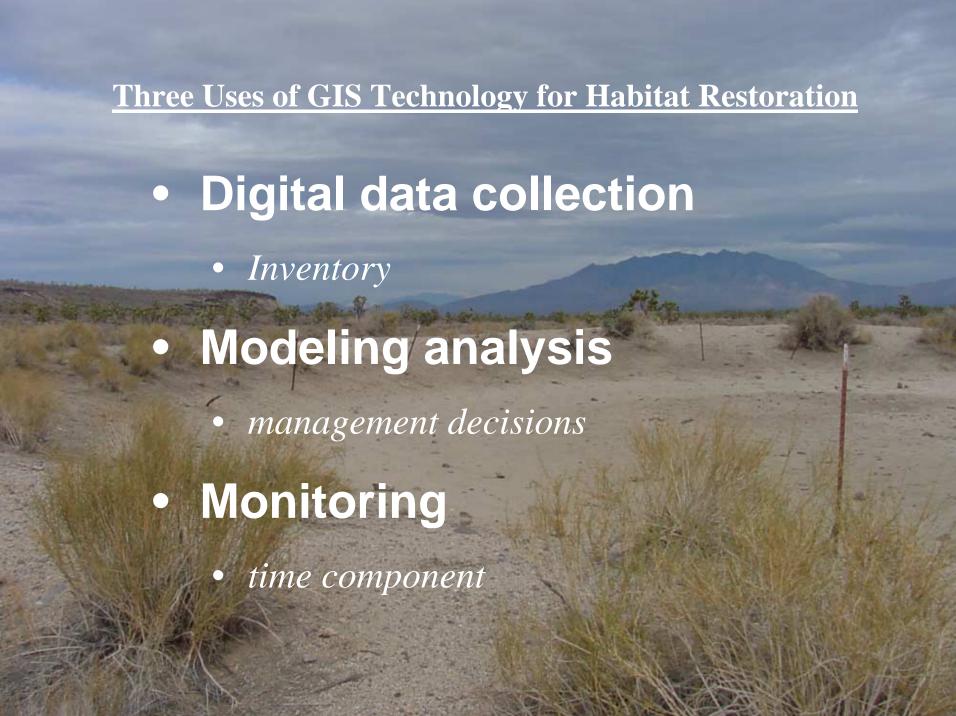
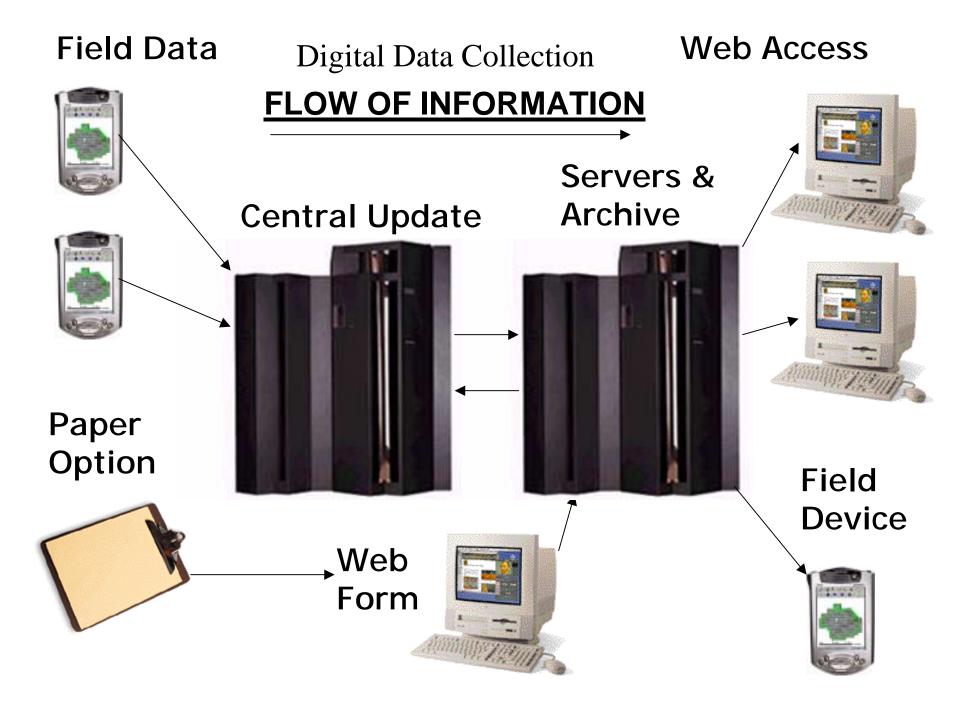


2003 Arid Southwest Lands Habitat Restoration Conference

Debra L Hughson, Science Advisor National Park Service Mojave National Preserve







Digital Data Collection

Total \$1744

Compaq iPAQ ArcPad 6

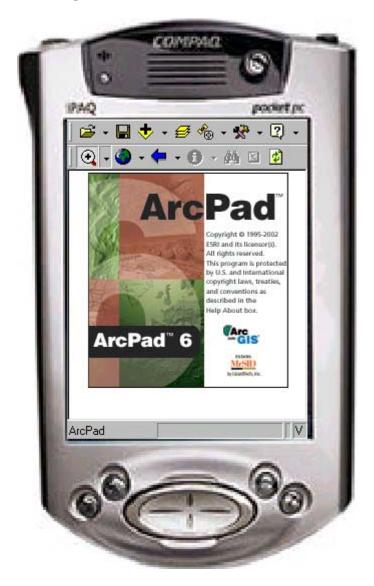
\$1195.00

PC Card Pack & 5 GB Hard Card

\$349.00

GPS and cord

~ \$200.00

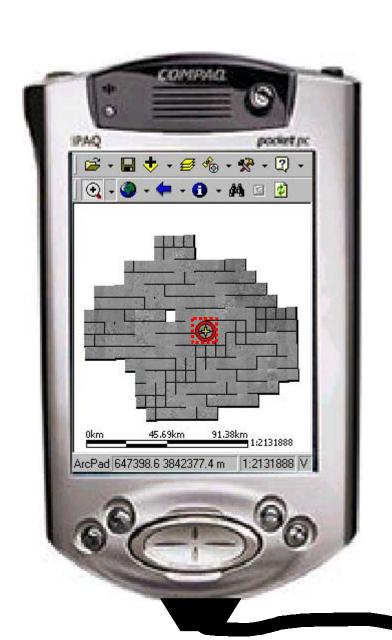


Digital Data Collection

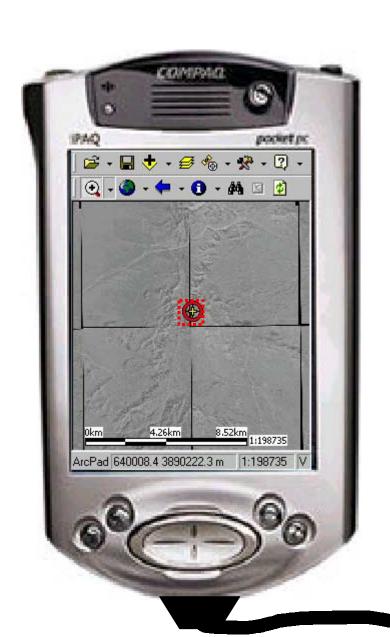
Example:

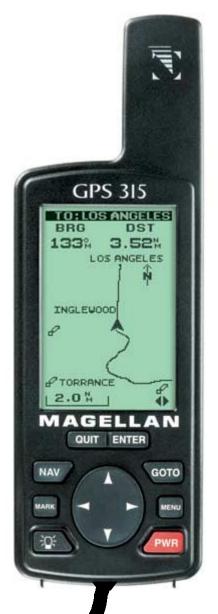
Inventory of unofficial campsites in Mojave National Preserve



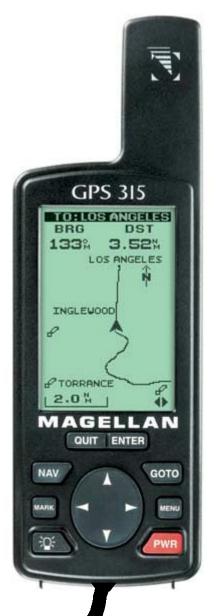




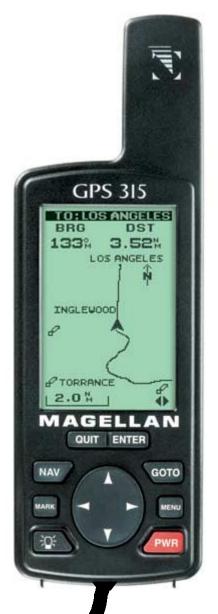




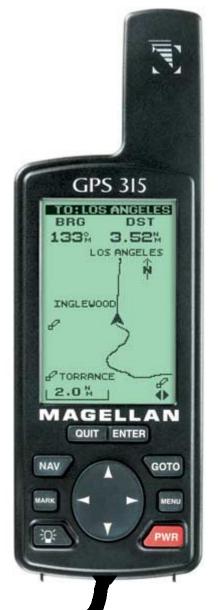












Collect data for campsite inventory







Collect information on campsite photo





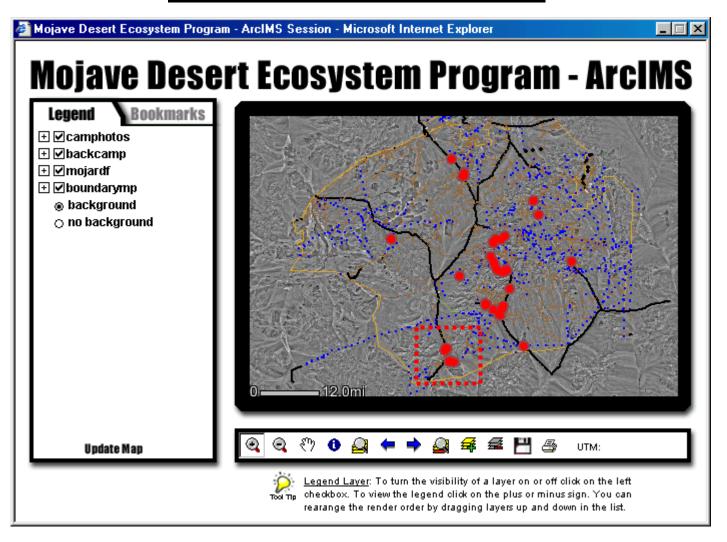








Data Access via the Web



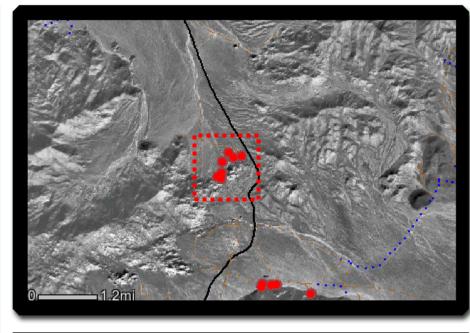


UTM: (620053, 3849087)

Mojave Desert Ecosystem Program - ArcIMS

Legend

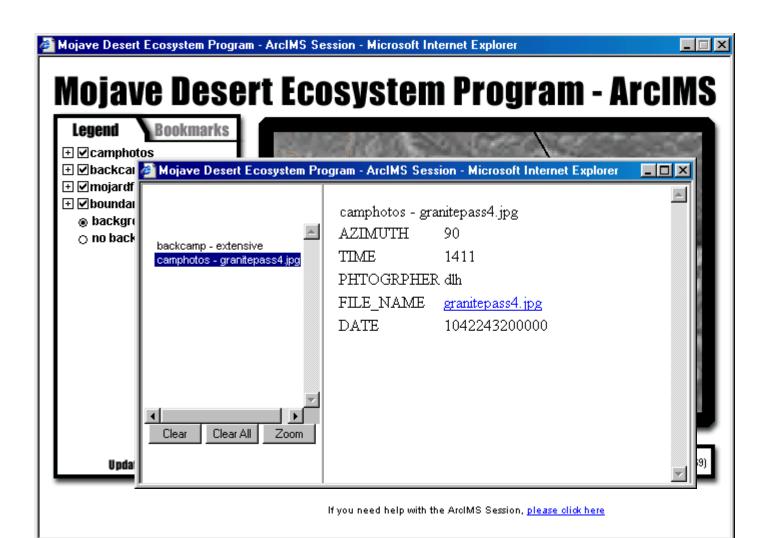
- Bookmarks
- **∃ ⊘**camphotos
- **± ☑** backcamp
- **★** boundarymp
 - background
 - o no background

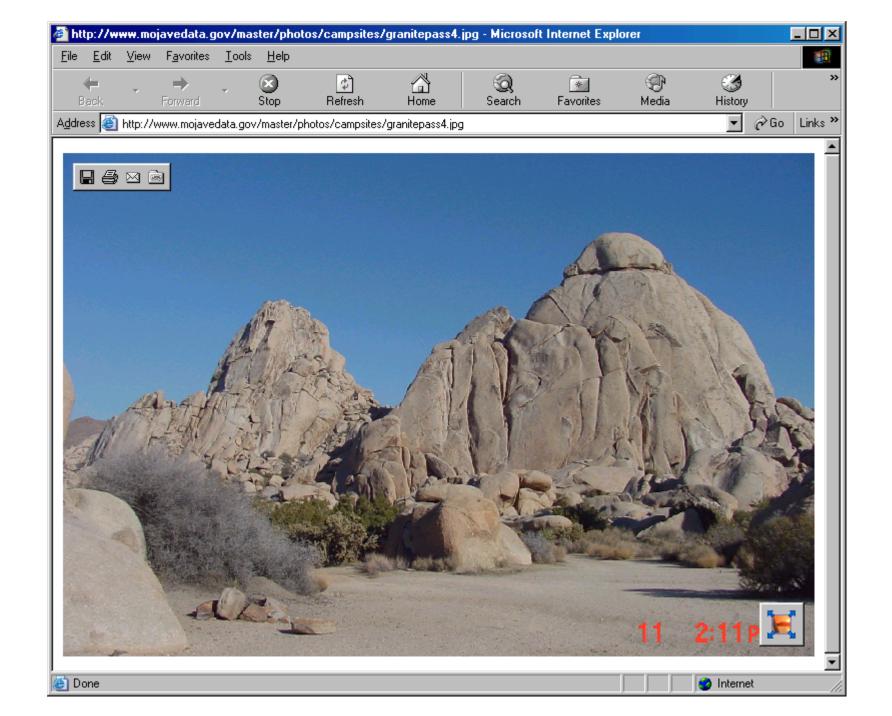


Update Map



Pan: Move the mouse over the map, hold down the left mouse button, and drag the image to pan the map to a new location.



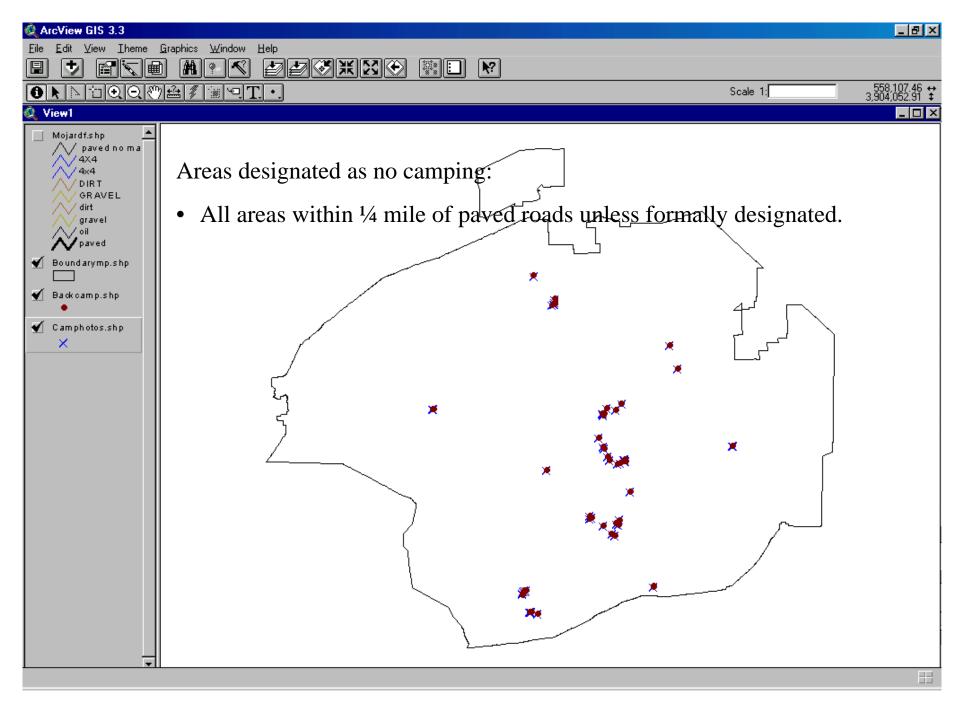


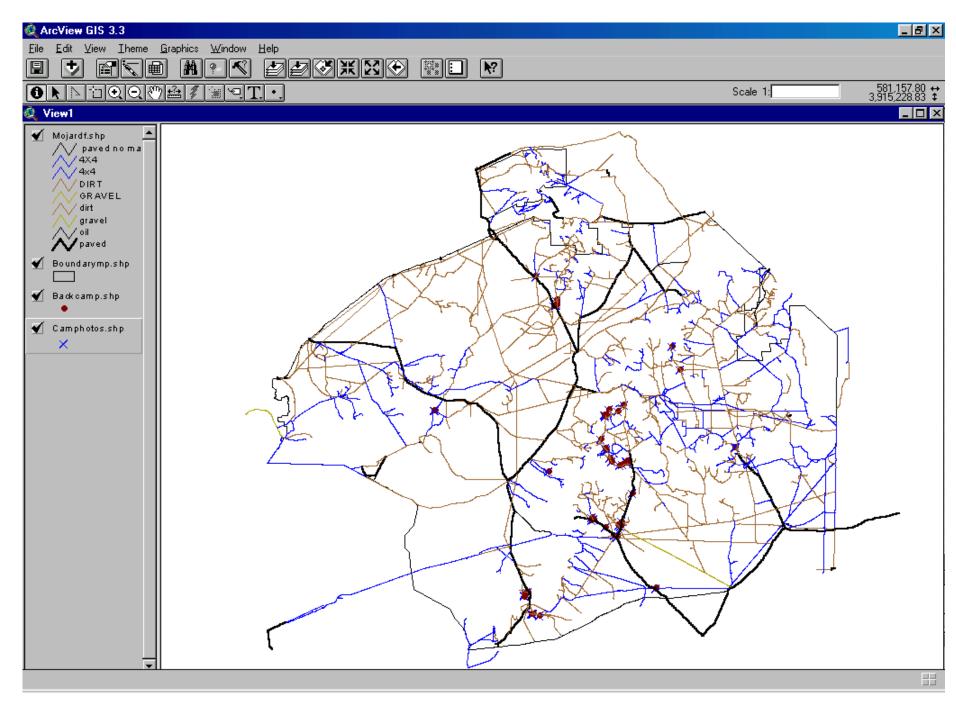
Data Collection

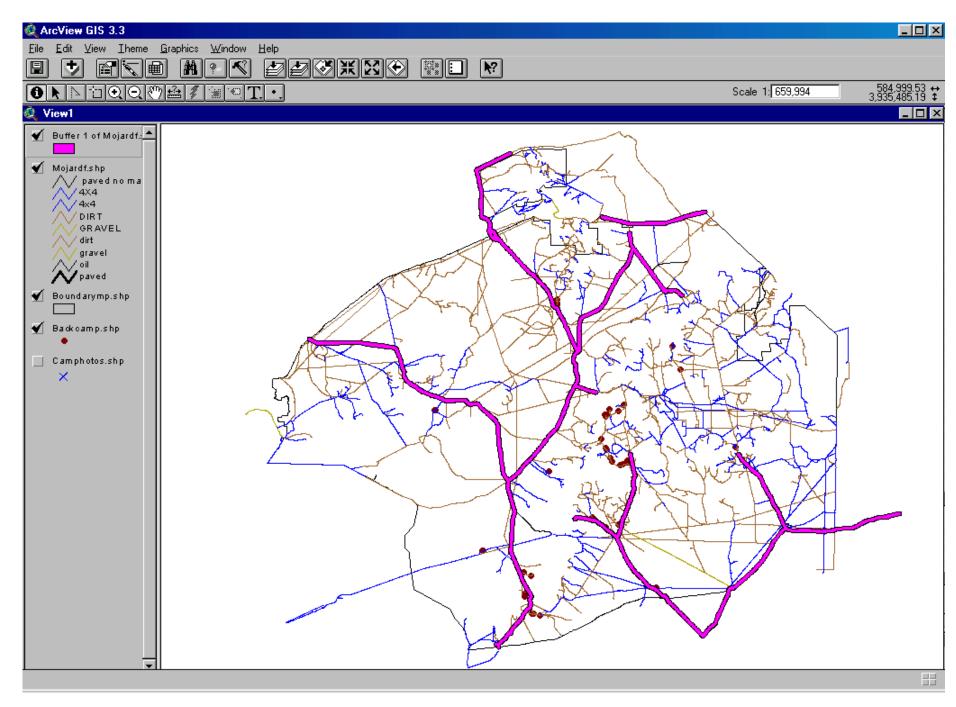
- Accumulate data collected by numerous individuals working independently
- Access data remotely via the web
- Every individual in the field has a copy of the latest data
- Data collection is standardized via the electronic form

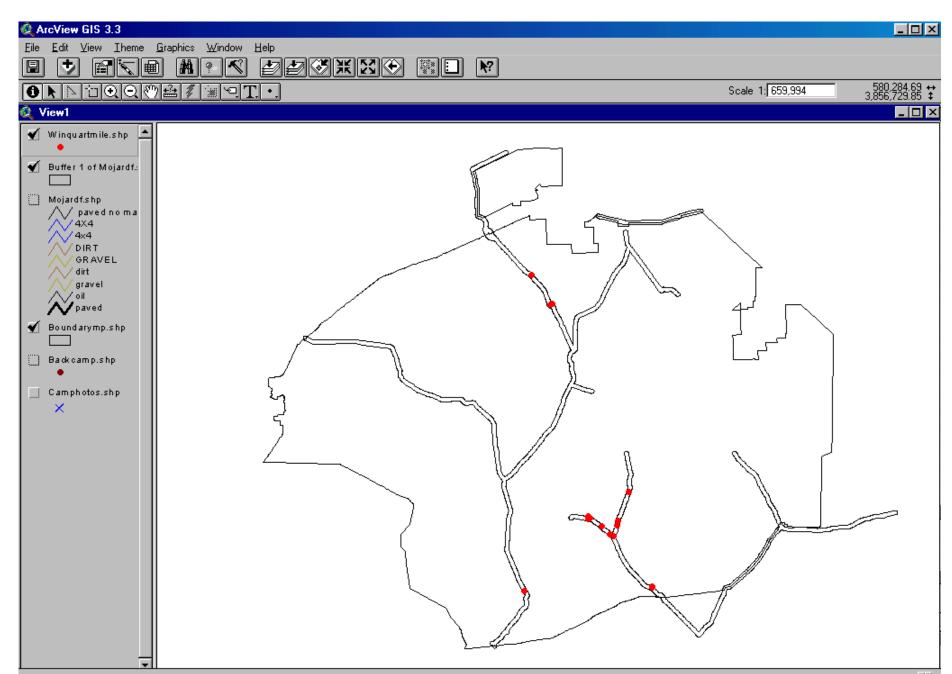
Analysis and Modeling with ArcView

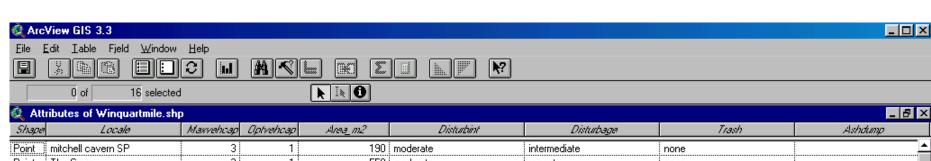
Using built-in Arcview 3.3 functions







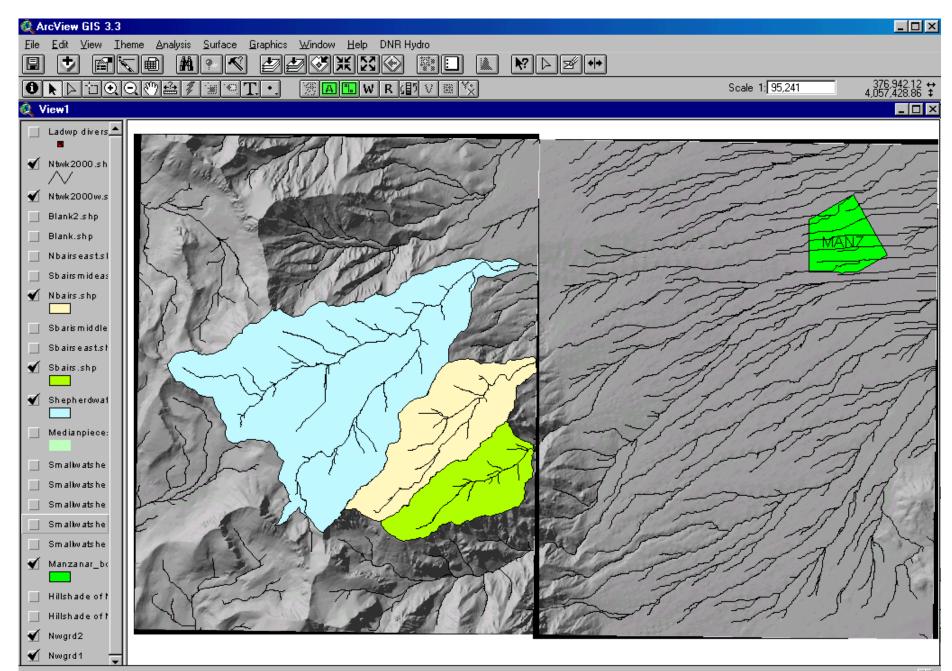


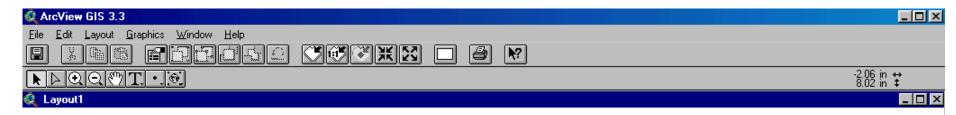


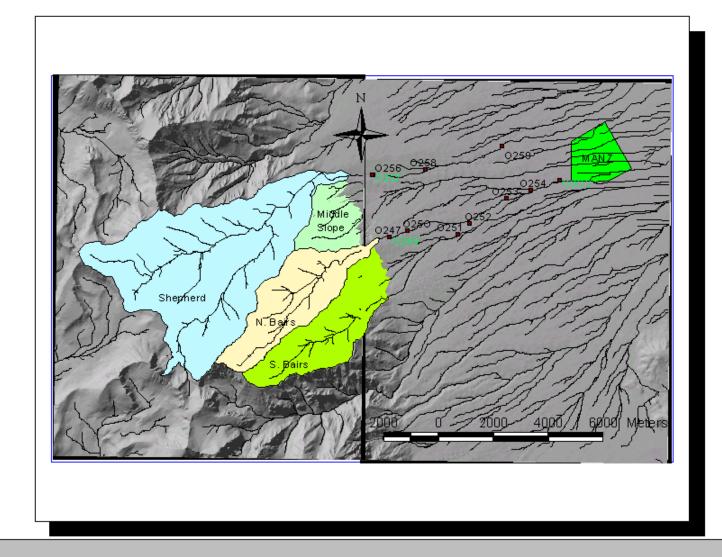
Shape	Locale	Maxvehcap	Optvehcap	Area_m2	Disturbint	Disturbage	Trash	Ashdump
Point	mitchell cavern SP	3	1	190	moderate	intermediate	none	
Point	The Cross	3	1	550	moderate	recent	none	
Point	The Cross N	2	1	105	moderate	recent	little	
Point	Kessler Peak 0	2	1	290	moderate	occupied		
Point	Corral & Stocktank	15	3	15500	extensive	occupied		
Point	Granite Pass 1st	2	1	250	moderate	intermediate	little	
Point	Blind Hills	10	2	1200	extensive	recent	little	only in firepit
Point	Blind Hills	10	2	1000	extensive	occupied	some	
Point	Mitchell Caverns SP	1	0	100	light	intermediate	none	only in firepit
Point	Mitchell Caverns SP	1	0	100	light	intermediate	little	scattered
Point	Mitchell Caverns SP	2	1	500	moderate	recent	some	none
Point	Mitchell Caverns SP	0	0	0		occupied		
Point	Essex/Black Canyon Intersecti	5	0	2700	severe	occupied	some	none
Point	Black Canyon Rd	2	1	150	moderate	recent	little	scattered
Point	Black Canyon Rd	0	0	0	extensive	occupied		
Point	Black Canyon Rd	5	0	1000	extensive	recent	little	scattered



- Using custom developed extensions and scripts
- Example: Watershed and stream channel analysis at Manzanar using the Minnesota Department of Natural Resources Hydrology Extension
- Lots of resources available on the web





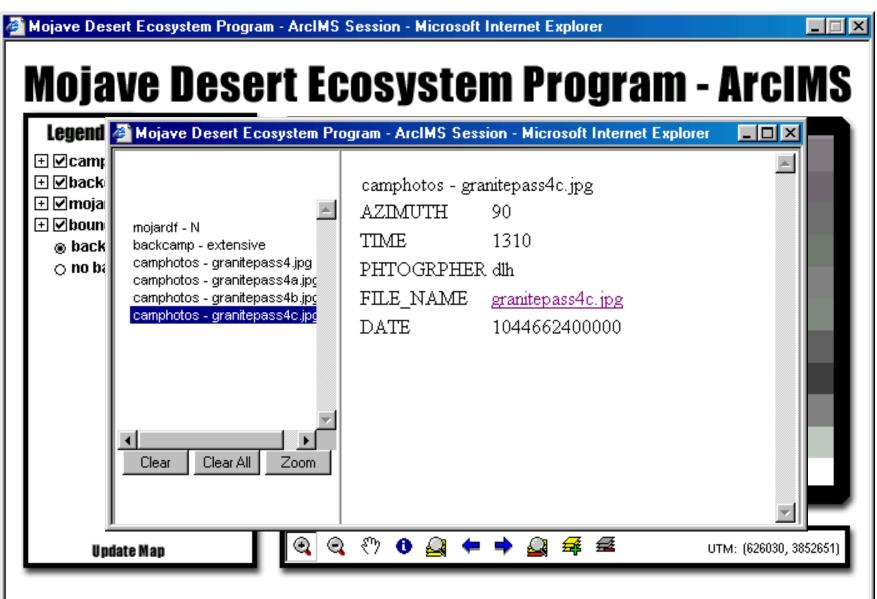


GIS Modeling Applications

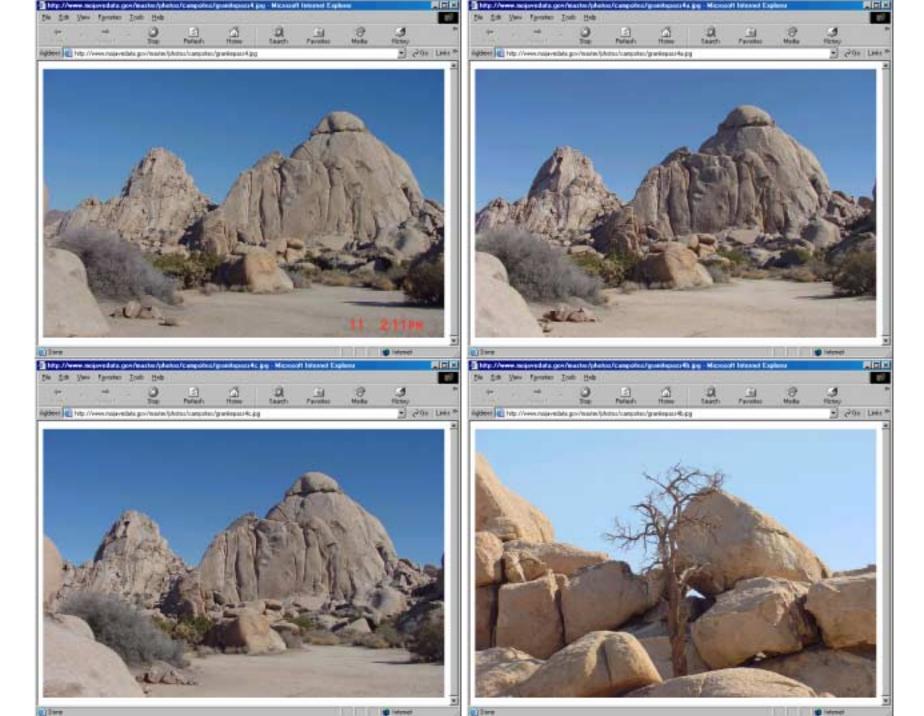
- Limited by imagination and programming ability
- Lots can be accomplished with Arcview functions
- Capabilities expanded by extensions and scripts
- Many applications can be downloaded for free

Monitoring by repeat photography

Incorporating the time component



If you need help with the ArcIMS Session, please click here



Monitoring by repeat photography

- Hyperlinked GIS layers are a convenient way to organize monitoring photography.
- Shape file data used to collect and organize monitoring information are the same as used for web-based distribution.
- GIS layers are created in the field with pertinent information, centrally managed/archived, and distributed via the internet.

Comments? Questions?